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## SEQUENCE LISTING

<110> The University of Texas System Board of Regents

<120> Regulatable, Catalytically Active Nucleic Acids

<130> 119927-1050

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<141> 2001-06-14

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<151> 2000-06-15

<160> 44

<170> PatentIn version 3.1

<210> 1

<211> 129

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<213> Artificial Sequence

<220>

<223> Engineered Aptazyme

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120

agtcggttag

129

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<211> 131

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120

gaattatccct t  
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<210>  
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60

cagataaggt cgtaatctt accccggaa  
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<220>  
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 <223> n=a,c,t, or g

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 gactatccct t  
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<222> (37)..(87)

<223> n=a, t, g, or g

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<223> primer

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<210> 9

<211> 18

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<210> 11  
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 <223> competitor sequence

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cuccagacuu gacgaagcuu  
 40

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 <223> competitive sequence

<400> 12

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cuccagac uugacgaagc uu

82

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<213> Artificial Sequence

<220>

<223> competitive sequence

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<213> Artificial Sequence

<220>

<223> competitive sequence

<400> 14

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110

uuaauagacg ccuugcggcu cuuauuagau aagguauagu ccaaaauugu auguaauuac  
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aaaaugauaa aaaaaaauga aaucuaugg g

211

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<211> 80

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caatcccggtg ctaaattgta ggactgcccg ggttctacat aaatgcctaa cgactatccc  
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tt  
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<210> 17  
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<220>  
 <223> primer

<400> 17

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24

\*210\* 18  
\*211\* 24  
\*212\* DNA  
\*213\* Artificial Sequence

\*220\*  
\*223\* primer

\*400\* 18  
cccggaattc tatccagctg catg  
24

\*210\* 19  
\*211\* 94  
\*212\* DNA  
\*213\* Artificial Sequence

\*220\*  
\*223\* oligonucleotide

\*400\* 19  
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40

caatccggtg cttaaagcct aacgactatc cctt  
44

\*210\* 20  
\*211\* 131  
\*212\* DNA  
\*213\* Artificial Sequence

\*220\*  
\*223\* oligonucleotide

\*400\* 20  
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caatccggtg cttaaattata ccagcatcgt cttgatgcc ttggcagata aatgcctaac  
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133

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caatcccggtg ctaaataaac cagcatcgtc ttgatgccct tggcagtaaa tgccctaacga  
120

ctatccctt  
129

4210 24  
4211 115  
4212 DNA  
4213 Artificial Sequence

4220  
4223 oligonucleotide

4400 24  
gactgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga  
60

caatcccgta taccagcatc gtcttgatgc ccttggcagc taacgactat ccctt  
115

4210 25  
4211 117  
4212 DNA  
4213 Artificial Sequence

4220  
4223 oligonucleotide

4400 25  
gactgagtat aaggtgactt atacttgtaa tctatctaaa cggggaacct ctctagtaga  
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caatcccggtg ataccagcat cgtcttgatg ccttggcag cctaacgact atccctt  
117

4210 26  
4211 144  
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4213 Artificial Sequence

4220

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gtcttgatgc ccttggcaga gacaatcccg tgctaaattg taggactgcc cgggttctac  
120

ataaatgcct aacgaactatc cctt  
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<210> 27

<211> 140

<212> DNA

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<223> oligonucleotide

<400> 27

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120

atgcctaacg actatccctt  
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<211> 107

<212> DNA

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<223> oligonucleotide

<400> 28

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107

<210> 29  
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 107

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caatcccggtg ctaaattagg atatgcttcg gcagaaggat aaatgcctaa cgactatccc  
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tt  
 122

<210> 31  
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caatcccggtg ctaaattgag gatatgcttc ggcagaaggc ataaatgctt aacgactatc

120

gcctt

124

&lt;210&gt; 32

&lt;211&gt; 37

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; primer

&lt;400&gt; 32

gataatacga ctcaactataa tggcattacc gccttgt

37

&lt;210&gt; 33

&lt;211&gt; 26

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; primer

&lt;400&gt; 33

gctctagact tagctacaat atgaac

26

&lt;210&gt; 34

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; substrate

&lt;400&gt; 34

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18

&lt;210&gt; 35

&lt;211&gt; 61

&lt;212&gt; DNA

4213 Artificial Sequence

4220

4223 ribozyme

4220

4221 misc\_feature

4222 (37)..(47)

4223 n=a, c, t, or g

4400 35

cggaagcaag gagagacgtc cttggaggag caagggnnnn nnnnnnngtc ttacagtcag  
c0

t

c1

4210 36

4211 54

4212 DNA

4213 Artificial Sequence

4220

4223 ribozyme

4210

4221 misc\_feature

4222 (14)..(17)

4223 n=a,c,t, or g

4400 36

cagagcatta aggnnnnacg ggtgactctt tagttaggct cccgttagtt tagg  
c4

4210 37

4211 55

4212 DNA

4213 Artificial Sequence

4220

4223 ribozyme

4210

4221 misc\_feature

<222> (39)..(43)

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<210> 38

<211> 50

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<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> ribozyme

<400> 39

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<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> ribozyme

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<210> 42  
 <211> 50  
 <212> DNA  
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